ojj.c

```c
#include<stdio.h>
void main(){
    int n;
    printf("enter an integer:\n");
    scanf("%d",&n);
    int num = 1;
    for (int i = 0; i < n; i++)
    {
        for (int j = 0; j <= i; j++)
        {
            printf("%d\t",num);
            ++num;
        }
        printf("\n");
    }
}
```

```
        printf("%d", i);
        printf("\n");
    }
}
}
```

6)
```
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
#define pi 3.14
int main() {
int choice, r, h;
float area, volume;
printf("Enter shape you want \n");
while (choice != 4)
{
    printf("\nmenu\n 1: cylinder \n 2: cone \n
            3: sphere \n 4: Exit \n");
    scanf("%d", &choice);
    switch (choice)
{
case 1 : printf("Enter radius: \n");
         scanf("%d", &r);
         printf("Enter height: \n");
         scanf("%d", &h);
        area = (2*pi*r*h) + (2*pi*pow(r,2));
        volume = pi*pow(r, 2)*h;
       printf("Area: %f \n volume: %f", area, volume);
break;
```

```
printf("Enter height : \n");
Scanf("%d", &h);
area = pi * r * (r + sqrt(pow(h,2) + pow(r,2)));
volume = pi * pow(r,2) * h / 3.0;
printf("Area : %f \n volume : %f", area, volume)
break;
case 3 : printf("Enter radius : \n");
Scanf("%d", &r);
area = 4 * pi * pow(r,2);
volume = (4/3.0) * (pi * pow(r,3));
printf("Area : %f \n volume : %f", area
```

```
do                    ape you want\n");
{
  printf("\nmenu\n 1:Cylider\n 2:Cone\n 3:Sphere\n 4:Exit\n");
  scanf("%d",&choice);
  switch(choice)
  {
    case 1 : printf("Enter radius:\n");
             scanf("%d",&r);
             printf("Enter height:\n");
             scanf("%d",&h);
             area=(2*pi*r*h)+(2*pi*pow(r,2));
             volume=pi*pow(r,2)*h;
             printf("Area:%f \t\t Volume:%f",area,volume);
    break;
    case 2 : printf("Enter radius:\n");
             scanf("%d",&r);
             printf("Enter height:\n");
             scanf("%d",&h);
             area=pi*r*(r+sqrt(pow(h,2)+pow(r,2)));
             volume=pi*pow(r,2)*h/3.0;
             printf("Area:%f \t\t Volume:%f",area,volume);
    break;
    case 3 : printf("Enter radius:\n");
             scanf("%d",&r);
             area=4*pi*pow(r,2);
             volume=(4/3.0)*(pi*pow(r,3));
             printf("Area:%f \t\t Volume:%f",area,volume);
    break;
    case 4 : printf("Exit\n");
    break;
    default : printf("Enter a no. ranging from 1 to 4");
  }
}while(choice!=4);
return 0;
```

```
int a, b, num1, num2, i, j;
printf ("Enter two nos : \n");
Scanf (" %d%d ", &num1, &num2);
if (num1 > num2) {
        a = num2;
        b = num1;
}
else {  a = num1;
        b = num2;
}
if (b%2) {
```

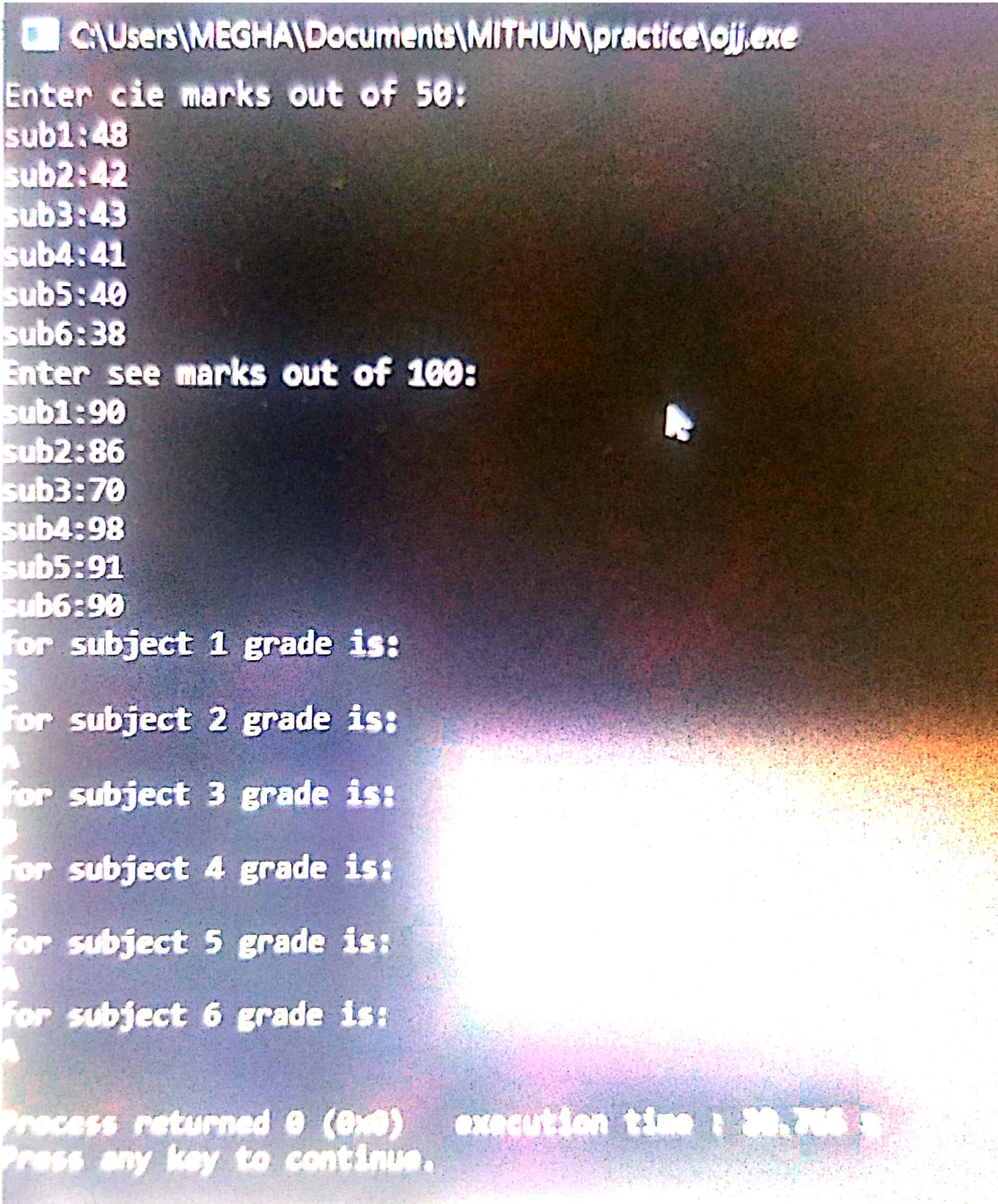
```c
#include<stdio.h>
void main(){
    int a, b, num1, num2, i, j;
    printf("Enter two nos:\n");
    scanf("%d%d",&num1,&num2);
    if(num1>num2){
        a = num2;
        b = num1;
    }
    else{
        a = num1;
        b = num2;
    }
    if(b < 2){
        printf("there are no prime nos in this range.\n");
        exit(0);
    }
    printf("prime nos in the range are:\n");
    for (i = a; i <= b; i++){
        int flag = 0;
        for(j = 2; j <= i/2; j++){
            if (i % j == 0){
                flag = 1;
                break;
            }
        }
        if (flag == 0 && i != 1 && i != 0){
        printf("%d",i);
        printf("\n");
        }


    }
}
```

```
}
for (k=0; k<SUB; k++)
  { total_marks[k] = cie_marks[k] + see_marks[k];
printf(" for subject %d grade is : \n", k+1);
  if (total_marks[k] >= 90) {
      printf("S\n");
```

Week 2

3)
```
#include <stdio.h>
void main()
{ int n, i, j;
  printf("Enter no. of rows: ");
  scanf("%d", &n);
  int num = 1;
  for(i=0; i<=n; i++)
  { for(j=0; j<=i; j++)
    { printf("%d\t", num);
      ++num;
    }
    printf("\n");
  }
}
```

4)
```
#include <stdio.h>
#define SUB 6
void main()
{ float ciemark[SUB], seemark[SUB], cie, see, totmark[SUB];
  int i, j, k;
printf("Enter cie marks out of 50:\n");
  for(i=0; i<SUB; i++)
  { printf("sub %d: ", i+1);
    scanf("%f", &cie);
    if(cie->50)
    { printf("enter marks for 50\n");
      i--;
    }
    ciemark[i] = round(cie);
}
```



```
        scanf("%f", &see);
        if (see > 100){
            printf("enter marks for 100\n");
            i -= 1;
        }
        else {
            seeMark[j] = round(see/2);
        }
    }
for (k = 0; k < SUB; k++){
    totMark[k] = cieMark[k] + seeMark[k];
    printf("for subject %d grade is:\n",k+1);
    if(totMark[k] >= 90){
        printf("S\n");
    }
    else if (totMark[k] >= 80){
        printf("A\n");
    }
    else if(totMark[k] >= 70){
        printf("B\n");
    }
    else if(totMark[k] >= 60){
        printf("C\n");
    }
    else if(totMark[k] >= 50){
        printf("D\n");
    }
    else if(totMark[k] >= 40){
        printf("E\n");
    }
    else {
        printf("F\n");
    }

}
```

```c
#include<stdio.h>
#define SUB 6
void main(){
    float cieMark[SUB], seeMark[SUB], cie, see, totMark[SUB];
    int i,j,k;
    printf("Enter cie marks out of 50:\n");
    for ( i = 0; i<SUB; i++){
        printf("sub%d:",i+1);
        scanf("%f",&cie);
        if (cie > 50){
            printf("enter marks for 50\n");
            i-=1;
        }
        cieMark[i] = round(cie);
    }
    printf("Enter see marks out of 100:\n");
    for( j = 0; j< SUB; j++){
        printf("sub%d:", j + 1);
        scanf("%f", &see);
        if (see > 100){
            printf("enter marks for 100\n");
            i -= 1;
        }
        else {
            seeMark[j] = round(see/2);
        }
    }
    for (k = 0; k < SUB; k++){
        totMark[k] = cieMark[k] + seeMark[k];
        printf("for subject %d grade is:\n",k+1);
        if(totMark[k] >= 90){
            printf("S\n");
        }
        else if (totMark[k] >= 80){
            printf("A\n");
        }
        else if(totMark[k] >= 70){
            printf("B\n");
```

```
    seeMark[SUB], cie, see, totMark[SUB];
int i,j,k;
printf("Enter cie marks out of 50:\n");
for ( i = 0; i<SUB; i++){
    printf("sub%d:",i+1);
    scanf("%f",&cie);
    if (cie > 50){
        printf("enter marks for 50\n");
        i-=1;
    }
    cieMark[i] = round(cie);
}
printf("Enter see marks out of 100:\n");
for( j = 0; j< SUB; j++){
    printf("sub%d:", j + 1);
    scanf("%f", &see);
    if (see > 100){
        printf("enter marks for 100\n");
        i -= 1;
    }
    else {
        seeMark[j] = round(see/2);
    }
}
for (k = 0; k < SUB; k++){
    totMark[k] = cieMark[k] + seeMark[k];
    printf("for subject %d grade is:\n",k+1);
```